Transparency Worksheet

Name _____

Pressure

Class _____ Date _____

1. What is meant by pressure? _____

2. In the top diagram, explain why the pressure on the target area is greater in the box on the right than in the box on the left. _____

_____

3. (a) A device to measure atmospheric pressure is called a _____

(b) Why was mercury often used for this purpose? _____

_____

(c) What do we now know about the safety hazards of using mercury? _____

4. The diagram of the containers with the movable piston illustrates which gas law? _____

_____

Critical Thinking

5. Explain how the mercury barometer works. _____

_____

_____

_____

6. (a) Suppose today's barometric pressure is 29.3. What units are being used? _____

(b) Convert this reading to three different units of pressure used in science. _____

7. (a) How could you increase the pressure (collisions) in the boxes in the top drawing without adding more Ping-Pong balls? _____

(b) Use the back of this worksheet to make a drawing to illustrate your answer.